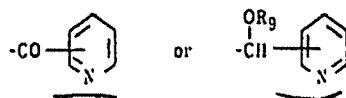


87-130843/19 C02
 CIBA GEIGY AG CIBA 01.10.85
 01.10.85-CH-004245 (13.05.87) A01n-43/40 C07d-213/30
 New 1-phenoxy-2-pyridyl-alkanone and-alkanol derivs. - useful as
 fungicides, bactericides and plant growth regulators
 C87-054365 E(A) B(E) CH DE ES FR GB GR IT I(LU NL SE)

C(7-D4, 12-A1, 12-A2C, 12-P1, 12-P9) 3

R₈ =



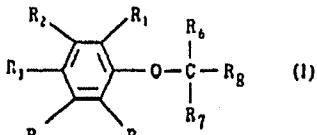
R₉ = H, 1-6C alkyl, 3-6C alkenyl, 3-6C alkynyl, or benzyl (opt. ring-substd. by halo, 1-6C alkyl or 1-6C alkoxy, both opt. substd. by halo); provided that the CO gp. in R₈ must be in the 3- or 4-position when R₁, R₂, R₄, R₅ and R₇ are all H, R₃ = MeO and R₆ = Me; and R₉ can also be R₁₀CO; R₁₀ = 1-6C alkyl (opt. substd. by halo), 3-6C alkenyl or alkynyl, 2-5C alkoxy-alkyl, 3-6C cycloalkyl (opt. substd. by 1-3C alkyl) or phenyl, benzyl or phenethyl (opt. ring-substd. by halo, 1-6C alkyl or alkoxy, both opt. substd. by halo).

USE/ADVANTAGE

(1) are microbicides, effective against phytopathogenic bacteria and fungi; they have curative, systemic and esp.

EP-221844-A*

Phenoxyalkyl-pyridine derivs. of formula (1) are now:



R₁ - R₃ = H, halo, 1-6C alkyl or 1-6C alkoxy (both opt. substd. by halo), CN, 1-5C alkoxy carbonyl or phenyl;

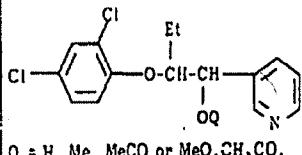
R₆ and R₇ = H, 1-6C alkyl, 3-6C alkenyl, 3-6C alkynyl, or phenyl or benzyl (both opt. ring-substd. by halo, 1-6C alkyl or 1-6C alkoxy, both opt. substd. by halo);

preventative properties and can be applied to plants, seeds or soils. Some (1) also have plant-growth regulating activity and at higher doses inhibit excessive vegetative growth of crops.

Pref. application rates are 150-600 g/ha.

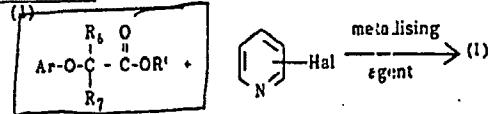
SPECIFICALLY CLAIMED

9 Cpd's. e.g.



Q = H, Me, MeCO or MeO.CH₂CO.

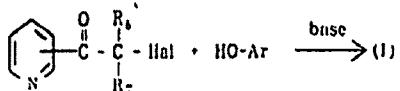
PREPARATION



Ar = phenyl substd. by R₁ to R₅;
 R' = 1-4C alkyl, 3-4C alkenyl, or phenyl or benzyl, opt. substd. by alkyl, alkoxy, halo, NO₂ or CN.

Reaction is pref. at -130 to 20°C, with Mg (in the form of a Grignard reagent) or BuLi as metallising agent.

(2)



Reaction is pref. at 0-120°C.

Both methods produce ketones which can be reduced conventionally to alcohols and these opt. alkylated or acylated.

EXAMPLE

140.2 g 93% 2,4-dichlorophenyl and 232 g K₂CO₃ were mixed in 1 l acetone, then heated briefly to boiling, cooled to 0°C and gradually treated over 1 hr. with 224.8 g 3-(bromoacetyl)pyridine hydrobromide.

The mixt. was stirred for 15 hr. at 0-5°C and for 6 hr. at 20°C, then filtered and the mixt. evaporated. Recrystn. of the residue from MeOH gave 2-(2,4-dichlorophenoxy)-1-(3-pyridyl)-1-ethanone, m.pt. 118-9°C. (31pp125LDAHDwgNo0/0).

(G) ISR: DE2742173 EP-117485 DE2909754.

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